

# RAINPROOF\* COLOR & NIGHT VISION CAMERA SECURITY SYSTEM

**Model 91851**

## ASSEMBLY AND OPERATING INSTRUCTIONS



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Visit our Web site at: <http://www.harborfreight.com>

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**For technical questions, please call 1-800-444-3353.**

**\*Extreme weather and temperature conditions excepted.**

## PRODUCT SPECIFICATIONS

Item	Description
Electrical Requirements	Adapter Input: 120 VAC / 60 Hz / 6 Watts Adapter Output: 7.5 VDC 6' Long Adapter Power Cord w/2-Prong Plug
Camera Resolution	300K Pixels (Color with Night Vision)
Field and Range of View	56° Field; 8" to 20' Range
Mounting Base Dimensions	2" Diameter
Operating Temperature Range	14° F - 122° F (-10° C - 50° C)
Overall Dimensions	1-15/16" W x 3-3/4" L x 2" H
Construction	Injection Molded Poly Plastic
Additional Features	Built-In Microphone; 80' AV Cable; Rainproof* Construction; *With the exception of extreme weather conditions.
Weight	1.75 Pounds

## SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

## GENERAL SAFETY RULES

 **WARNING!**  
**READ AND UNDERSTAND ALL INSTRUCTIONS**  
Failure to follow all instructions listed below may result in  
electric shock, fire, and/or serious injury.  
**SAVE THESE INSTRUCTIONS**

### WORK AREA

1. **Maintain a safe working environment.** Keep the work area well lit. Make sure there is adequate surrounding workspace. Always keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use the Security Camera in areas near flammable chemicals, dusts, and vapors.

## ELECTRICAL SAFETY

2. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances.** Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
3. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other).** This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation  eliminates the need for the three wire grounded power cord and grounded power supply system.
4. **Do not abuse the Power Cord.** Never use the Power Cord to carry the Adapter or pull the Adapter from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately. Damaged Power Cords increase the risk of electric shock.
5. **When operating the Security Camera outside, use an outdoor extension cord marked “W-A” or “W”.** These extension cords are rated for outdoor use, and reduce the risk of electric shock. Also, protect all connections from moisture.

## PERSONAL SAFETY

6. **Stay alert. Watch what you are doing, and use common sense when mounting the Security Camera.** Do not use power equipment while tired or under the influence of drugs, alcohol, or medication. A moment of inattention may result in serious personal injury.
7. **Do not overreach when mounting the Security Camera.** Keep proper footing and balance at all times. Proper footing and balance enables better control in unexpected situations.
8. **Wear eye protection when mounting the Security Camera.** Make sure to wear ANSI approved safety impact eye goggles. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

## PRODUCT USE AND CARE

9. **Disconnect the Adapter from the power source before making any adjustments, changing accessories, or storing the Security Camera.** Such preventive safety measures reduce the risk of accidents.
10. **Mount the Security Camera so that it and its Cords are out of children's reach.**
11. **Maintain labels and nameplates on the Security Camera.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
12. **Maintain this product with care.** Keep this product clean and dry for better performance.
13. **Maintenance:** For your safety, service and maintenance should be performed regularly by a qualified technician.
14. **Check for damaged parts.** Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the safe operation of this product. Replace or repair damaged or worn parts immediately.
15. **Use the right product for the job.** Do not modify this product, and do not use this product for a purpose for which it was not intended.

## SERVICE

16. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
17. **When servicing a tool, use only identical replacement parts. Follow instructions in the “*Inspection, Maintenance, And Cleaning*” section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury. Only use accessories intended for this product.

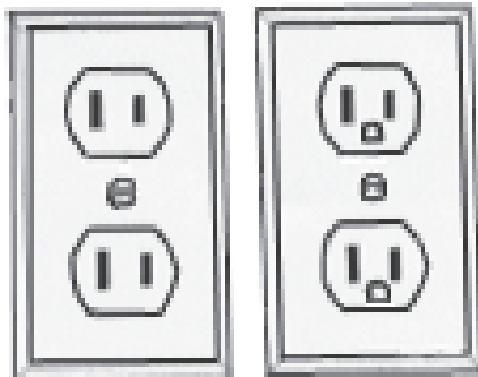
## GROUNDING



Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

### DOUBLE INSULATED TOOLS: TOOLS WITH TWO PRONG PLUGS

1. The Adapter for the Security Camera is marked “Double Insulated” and does not require grounding. The Adapter has a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. **(See Figure A.)**
2. Double insulated products may be used in either of the 120 volt outlets shown in the following illustration. **(See Figure A.)**



**FIGURE A**

## EXTENSION CORDS







1. **Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Figure B.)**
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Figure B.)**
4. If using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Figure B.)**
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Figure B.)**
6. If you are using an extension cord outdoors, make sure it is marked with the suffix suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.
7. Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.

<b>RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS*</b> <b>(120 VOLT)</b>					
<b>NAMEPLATE AMPERES (At Full Load)</b>	<b>EXTENSION CORD LENGTH</b>				
	<b>25 Feet</b>	<b>50 Feet</b>	<b>75 Feet</b>	<b>100 Feet</b>	<b>150 Feet</b>
<b>0 – 2.0</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>16</b>
<b>2.1 – 3.4</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>16</b>	<b>14</b>
<b>3.5 – 5.0</b>	<b>18</b>	<b>18</b>	<b>16</b>	<b>14</b>	<b>12</b>
<b>5.1 – 7.0</b>	<b>18</b>	<b>16</b>	<b>14</b>	<b>12</b>	<b>12</b>
<b>7.1 – 12.0</b>	<b>18</b>	<b>14</b>	<b>12</b>	<b>10</b>	<b>-</b>
<b>12.1 – 16.0</b>	<b>14</b>	<b>12</b>	<b>10</b>	<b>-</b>	<b>-</b>
<b>16.1 – 20.0</b>	<b>12</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>

\* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

**FIGURE B**

## SYMBOLOLOGY

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
	Volts Alternating Current
	Amperes
	No Load Revolutions per Minute (RPM)

**FIGURE C**

## SPECIFIC SAFETY RULES

1. **This Camera is Rainproof, however, it is NOT intended for use as an underwater camera.**
  - a. **Make sure to mount the Security Camera where it is protected from extreme weather and temperature conditions.**
  - b. **Make sure to properly seal all connections from moisture.**
  - c. **Do not immerse any part of this product in any liquid.**
2. **Do not point the Security Camera at the sun or any other bright light source.**
3. **Do not attempt to open the sealed parts of the Security Camera housing.**
4. **The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur.** The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## UNPACKING

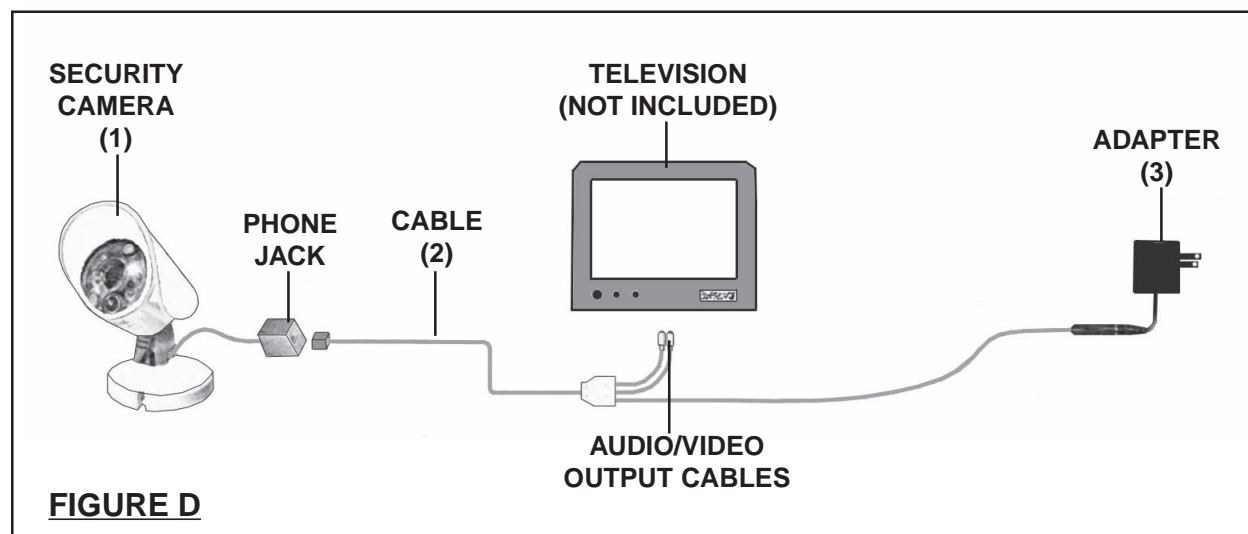
When unpacking, check to make sure all the parts shown on the **Parts List on page 10** are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

## ASSEMBLY AND OPERATING INSTRUCTIONS

**NOTE:** For additional information regarding the parts mentioned in the following pages, refer to the **Assembly Diagram on page 10.**

1. Locate the two mounting holes in the base of the Security Camera (1). Then use the two Wood Screws (4) to mount the Security Camera in the desired location on a wall or ceiling. Then, adjust the Security Camera to view a specific area. **(See Figure D.)**
2. Connect the Security Camera Phone Jack to the Cable (2). **(See Figure D.)**
3. Connect the Audio/Video Output Cables to your television. **NOTE:** The **Yellow Cable** connects to the **Yellow (video) television jack**. The **White Cable** connects to the **White (audio) television jack**. **(See Figure D.)**
4. Plug the Adapter (3) into the nearest 120 volt, grounded, electrical outlet. **(See Figure A.)**
5. Turn on your television, and set the channel selector to "AV Channel"\*. The Security Camera's view will then appear on the television screen. Turn up the volume on the television and the Security Camera's built-in microphone will relay sound to the television.


\*The video input selector may be a function of the TV remote control.



**FIGURE D**

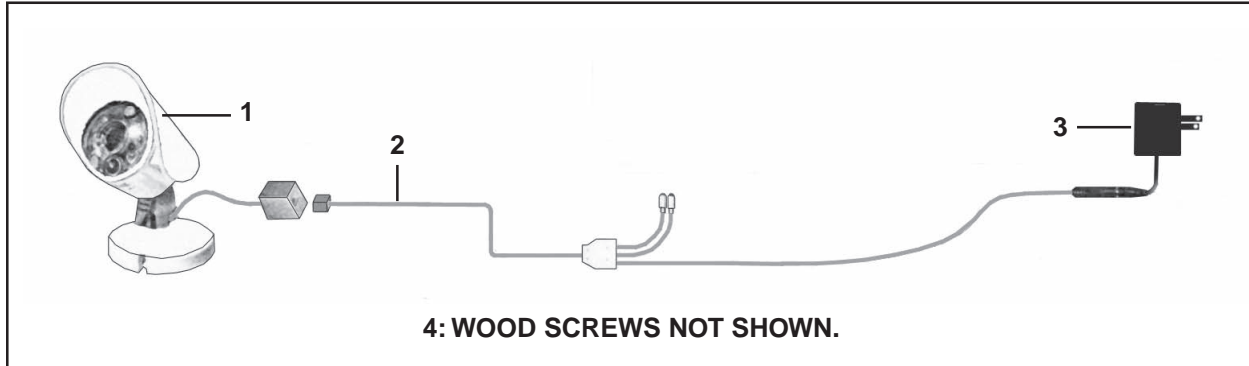


## INSPECTION, MAINTENANCE, AND CLEANING

1.  **WARNING!** Always unplug the Adapter (3) from its electrical outlet prior to performing any inspection, maintenance, or cleaning procedures.
2. **Before each use**, inspect the general condition of the Security Camera. Check for misalignment or binding of moving parts, cracked or broken parts, damaged wiring, and any other condition that may affect its safe operation. If a problem occurs with the Security Camera, have the problem corrected before further use. **Do not use damaged equipment.**
3. **To clean**, use a clean, damp, cloth to clean the outer surfaces of the Security Camera. A mild detergent may be used. Do not use solvents. Do not immerse any part of the Security Camera in liquids.
4. **When storing**, always keep the Security Camera in the in a clean, dry location.

## PARTS LIST AND ASSEMBLY DIAGRAM

Part #	Description	Qty.	Part #	Description	Qty.
1	Security Camera	1	3	AC/DC Adapter	1
2	Cable (80')	1	4	Wood Screw	2



**NOTE:** Some parts are listed and shown for illustration purposes only, and are not available individually as original or replacement parts.

## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.